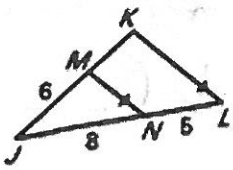
Homework - FORMA
Quiz 15/16 REVIEW

Name: _____

Date: _____ Per: _____

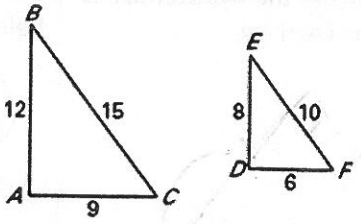
1. Find JK in the figure below.




$\frac{JM}{MK} = \frac{JN}{NL}$

$6 + MK = JK$

2. How are the triangles similar?




$\frac{AB}{DE} =$

$\frac{BC}{EF} =$

$\frac{AC}{DF} =$

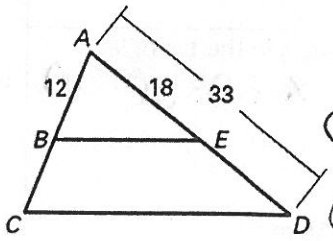
3. You and your friend are standing next to one another outside. Your shadow is 23 inches long and your friend's shadow is 24 inches long. You are 5 feet 5 inches tall. Approximately how tall is your friend, rounded to the nearest tenth? *(note: 12 inches = 1 foot)*

You:

$5.5 \times 12 =$ ____ in.

$\frac{H}{23} = \frac{}{24}$

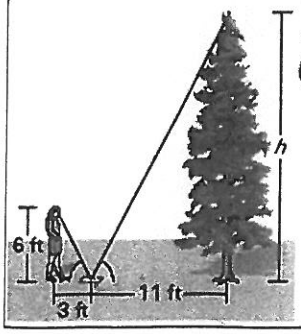
4. BE is parallel to CD. Find the measure of BC.




$33 - 18 = ED$

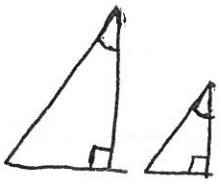
$\frac{AB}{AE} = \frac{BC}{ED}$

5. In order to estimate the height *h* of a tall pine tree, a student places a mirror on the ground and stands where she can see the top of the tree, as shown. The student is 6 feet tall and stands 3 feet from the mirror which is 11 feet from the base of the tree. What is the height *h* (in feet) of the pine tree?




$\frac{3}{6} = \frac{11}{h}$

6. If two angles of one triangle are congruent to two angles of another triangle, then the triangles are _____.



A. equilateral
B. right triangles
C. equiangular
D. similar
E. regular

9.4 GC/PPF601

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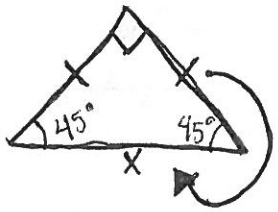
7. In a 45°-45°-90° triangle, the hypotenuse is _____ times as long as each leg.

A. $\sqrt{3}$
B. $\sqrt{2}$
C. $\frac{\sqrt{2}}{2}$
D. $\frac{3}{2}$
E. $\frac{\sqrt{2}}{3}$

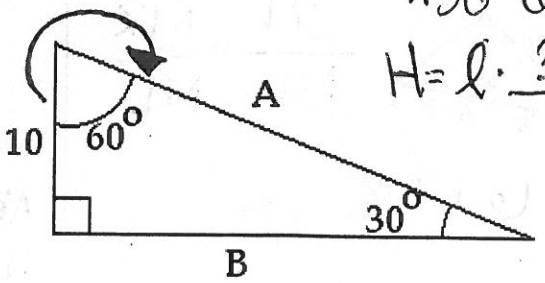



H = l · ?

8. Find the value of 'A' in the triangle shown below.

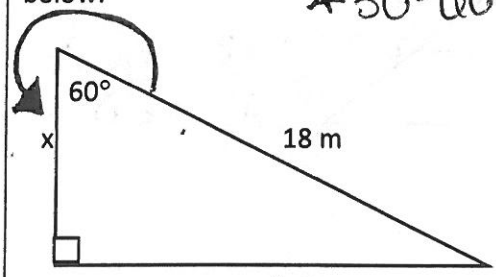
*30-60-90

H = l · ?




9. Find the length of side *x* in the triangle below.

*30-60-90



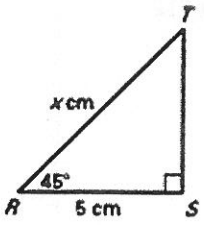

$\frac{18}{?} = x$

A. 6
B. $6\sqrt{3}$
C. 9
D. $9\sqrt{2}$
E. $\sqrt{18}$

10. What is the value of x? Round your answer to the nearest tenth.

*45-45-90

H = l · ·




A. 3.5
B. 5.0
C. 6.4
D. 7.0
E. 7.1

*solve and round!